AMENDMENTS

Please amend the claims as indicated below.

In the Claims:

- (Original) A method of electrochemical imaging, said method comprising: providing at least one target complex disposed on a conductive substrate; exposing said at least one target complex to a solution of image nanoparticles; applying a voltage to said conductive support wherein said image nanoparticles are caused to deposit on said at least one target complex to form at least one image complex; and repeating said application of voltage.
- (Original) The method of claim 1 further comprising detecting said at least one image complex.
- (Original) The method of claim 2, wherein said detecting said at least one image complex comprises using an imaging technique.
- (Original) The method of claim 2, wherein said detecting said at least one image complex comprises using an electronic measurement technique.
- (Original) The method of claim 2, wherein said detecting said at least one image complex comprises using a mass measurement technique.
- (Original) The method of claim 1, wherein said target complex comprises a target biomolecule and a target nanoparticle.
- (Original) The method of claim 6, wherein said target nanoparticle comprises gold.
- (Original) The method of claim 6, wherein said image nanoparticle comprises of silver.

- (Original) The method of claim 1, wherein said voltage is in the range from about -2000 mV to about 2000 mV
- (Original) The method of claim 1, wherein said voltage is applied between about 5 and about 50 times.
- (Original) The method of claim 1, wherein said providing at least one target complex comprises:

forming said at least one target complex; and

disposing the at least one target complex onto said conductive substrate.

12. (Original) The method of claim 1, wherein said providing at least one target complex comprises:

disposing a target biomolecule onto said conductive substrate; and

contacting said target biomolecule with a target nanoparticle to form said target complex on said first conductive substrate.

13. (Original) A method of determining the presence of a biomolecule, said method comprising:

providing a plurality of target complexes disposed on a conductive substrate, each said target complex comprising a target biomolecule and a target nanoparticle;

exposing said plurality of target complexes to a solution of image nanoparticles;

applying a voltage to said conductive support wherein said image nanoparticles are caused to deposit on said plurality of target complexes to form a plurality of image complexes; and

repeating said application of voltage at least once.

14. (Original) The method of claim 13, further comprising:

detecting said plurality of image complexes;

determining whether the detected plurality of image complexes provides a sufficient image of said biomolecules; and repeating said application of voltage at least once upon a determination that said image of said biomolecules is insufficient.

- (Original) The method of claim 14, wherein said detecting said plurality of image complexes comprises using an imaging technique.
- (Original) The method of claim 14, wherein said detecting said plurality of image complexes comprises using an electronic measurement technique.
- (Original) The method of claim 14, wherein said detecting said plurality of image complexes comprises using a mass measurement technique.
- (Original) The method of claim 13, wherein said providing said plurality of target complexes comprises;

forming said plurality of target complexes; and disposing said plurality of target complexes onto said conductive substrate.

 (Original) The method of claim 13, wherein said providing said plurality of target complexes comprises;

disposing a plurality of target biomolecules onto said conductive substrate; and contacting said plurality of target biomolecules with a plurality of target nanoparticles to form said plurality of target complexes on said first conductive substrate.

- $20. \hspace{0.5cm} \hbox{(Original) The method of claim 13, wherein said target nanoparticles are made of gold.}$
- (Original) The method of claim 13, wherein said image nanoparticles are made of silver.
- (Original) The method of claim 13, wherein said application of voltage comprises a voltage in the range from about -1500 mV to about 1500 mV.

- (Original) The method of claim 13, wherein said voltage is applied between about 5 and about 50 times
 - 24. (Original) A method comprising:
- (a) providing a plurality of target complexes disposed on a conductive substrate,
 each said target complex comprising a target biomolecule and a target nanoparticle;
- (b) exposing said plurality of target complexes to a solution containing a plurality of image nanoparticles:
- (c) applying a relatively low voltage to said conductive support wherein said image nanoparticles are caused to deposit on at least one of said plurality of target complexes to form at least a first nucleation point;
- (d) applying a relatively high voltage to said conductive support wherein said image nanoparticles are removed from said at least first nucleation point; and
- (e) repeating (c) and (d) as desired to cause the deposition of said image nanoparticles on said first nucleation point and on additional target complexes to cumulatively form additional nucleation points.
- (Original) The method of claim 24, further comprising: terminating the repetition of voltage application immediately after the application of a low voltage.
- (Original) The method of claim 24, comprising: terminating the application of voltage immediately after the application of a high voltage.
 - (Original) The method of claim 24, further comprising:
 detecting said image nanoparticles deposited at said nucleation points.
- (Currently Amended) An electrochemical imaging system, comprising: a conductive substrate configured for the formation of at least one image complex thereon; [[and]]

a voltage supply having electrodes for electrical connection to said conductive substrate, wherein said voltage supply is configured to apply a voltage to said conductive substrate repeatedly between a relatively low voltage and a relatively high voltage whereby said at least one image complex is formed when image nanoparticles are exposed to at least one target complex deposited on said conductive substrate[[i]]:

a supply of image nanoparticles; and a supply of target nanoparticles.

 (Currently Amended) The system of claim 28, further comprising: means for detecting said at least one image complex, said means selected from imaging equipment, electronic measurement equipment and mass measurement equipment[[-]]; and

a supply of target complexes.

- (Original) A kit for electrochemical imaging of image complexes, said kit comprising:
- a supply of target complexes for deposition on said conductive substrate of the system of claim 28; and
- a supply of image nanoparticles configured for interaction with said supply of target complexes.

New Claims:

- (New) The electrochemical imaging system of claim 28, wherein said image nanoparticles are silver and said target nanoparticles are gold.
- (New) The electrochemical imaging system of claim 28, comprising no more than two electrodes.
- 33. (New) The electrochemical imaging system of claim 28, wherein said voltage supply repeatedly cycles said voltage between a relatively low voltage and a relatively high voltage thereby causing said image nanoparticles to deposit on said at least one target complex to form said at least one image complex.